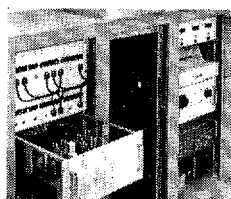
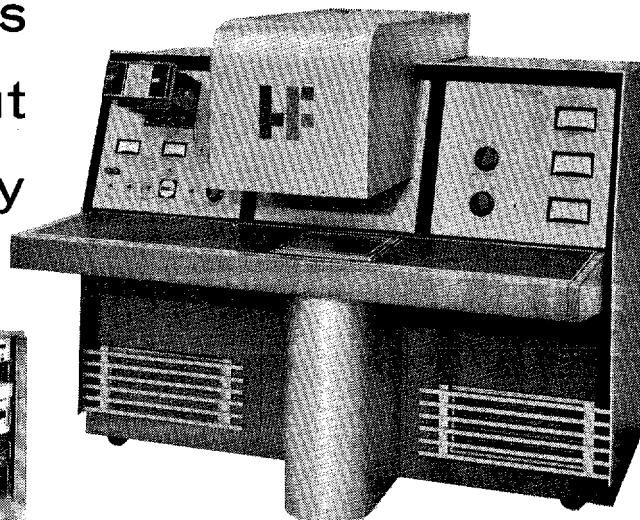


# Electronic Instrument Gives Precision Readout of Photo Quality



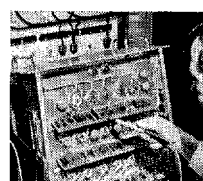
Compartmentalized Access



Direct Reading



Photographic Record



Easy Circuit Testing

The new Houston Fearless electronic *Image Quality Meter* accurately measures granularity, acutance and resolution of black and white photographic transparencies rapidly and automatically. Accommodates cut and roll film up to 18" wide.

**Basic Evaluation Tool** — The Image Quality Meter permits holding standards for controlled performance of all photographic systems — as basic to the photographic instrumentation field as the oscilloscope is to electronics. The most intricate systems can then be tested and evaluated precisely to the rigid standards established by this instrument.

**How it Works** — The film image is scanned with a moving spot of light; the light is collected in a photomulti-

plier tube and the input signal variations are then measured electronically with an analog computer. Results are observed on three meters (acutance, granularity, resolution). The microdensitometer trace on the oscilloscope may be photographically recorded at operator's option.

**Carefully Engineered** — Heavy duty circuitry is designed for easy access and quick testing. A massive steel frame immobilizes the optical system, fixing it permanently against mis-alignment due to shock and vibration. Console is on casters for easy movement about laboratory.

**Write for Specifications** — Orders are being accepted for early delivery. Write now for complete information on this remarkable new photographic instrument.

WESTWOOD DIVISION **HF** HOUSTON FEARLESS CORPORATION, LOS ANGELES 64, CALIF.

## SUSTAINING MEMBERS NEWS . . .

### XEROX CORPORATION NEWEST SUSTAINING MEMBER

The National Officers Executive Committee proudly announces the enrollment of the **Xerox Corporation** as an SPIE Sustaining Member.

This 55 year old Rochester firm was until recently known as Haloid Xerox, Inc. As of June 1, the corporate name was changed to Xerox Corporation. The Haloid Photo Division will continue as an autonomous photo-products sales organization within the new corporate identity.

Originally only in the photocopy, photographic paper and equipment field, Xerox Corporation has grown substantially in the past decade with the development and commercialization of a dry, electrostatic copying process called xerography (dry-writing).

The application of xerography to instrumentation data storage and retrieval represents an area of common interest for Xerox Corp. and SPIE. Much work along these lines is now being done at the new research and engineering laboratories in Webster, New York. Under the leadership of Dr. John H. Dessauer and Clyde R. Mayo, many new and useful applications of xerography are being perfected such as the shaped beam tube writers and the xerographic bright display for high speed imaging of CRT displays.

Technical information concerning special applications of the xerographic method may be had by writing:

Dr. F. A. Schwertz  
Xerox Corporation  
Rochester 3, N. Y.

### TARGET DRONE POD CAMERA

The Photo-Optical Division of **Consolidated Systems Corp.** has received a major contract from the Air Materiel Command's Aeronautical Systems Center at Wright-Patterson Air Force Base, Ohio, for 16mm missile scoring cameras. The cameras will be used by the U.S. Navy but were purchased for them by the Air Force under the single department photographic procurement assignment.

The cameras, mounted in pods at each wing tip of F9F drone targets, will record how and why guided missiles hit or miss their targets during tests at Pt. Mugu, Calif. They provide complete coverage of a missile's flight as it approaches the target.

When a hit is scored, the pod and cameras are recovered from the Drone

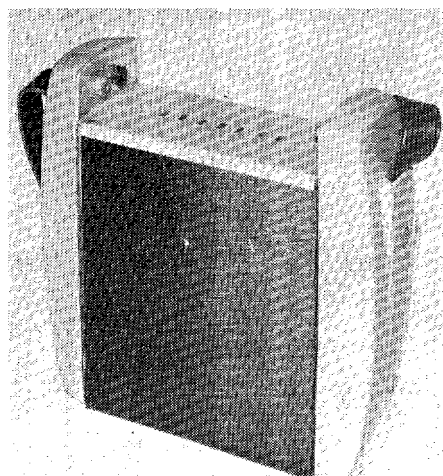
and the filmed records are removed.

The camera systems accurately record missile performance with drones operating at velocities up to Mach 0.95 and at altitudes of 5,000 to 50,000 feet. Camera speed is 200 frames per second.

### DYNAMAX POWER PACK

**Gordon Enterprises**, announces development of a new, lightweight, long lived source of D.C. power for operating a variety of motion picture and sequence cameras, tape recorders, and other data recording instruments.

Designated Dynamax Power Pack it is a nickel-cadmium battery with six to ten ampere-hour capacity, that can be recharged repeatedly with no known limit of service. It is available with 12



and 24 volt outputs for use with the Hulcher, and other cameras with similar power requirements. A dual Power Pack for Arriflex users supplies either 8.5 volts or 17 volts, switch selected, permitting use of one Power Pack with both 16mm and 35mm Arriflex Cameras. The unit is said to essentially double the capacity available with standard lead-acid type batteries, and its power output eliminates torque motor problems.

The complete Power Pack is housed in a leather case for over-the-shoulder use.

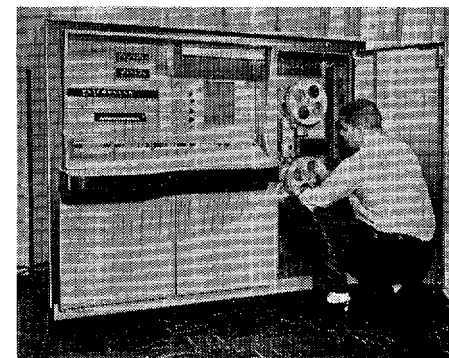
A companion unit is the Dynamax Charger which operates on 115 volts A.C. and will fully charge the Power Pack over night.

### FMA FILESEARCH

A ten page folder now is available which describes the recently intro-

duced FMA FileSearch-an automated system for information storage and retrieval.

Released by **FMA, INC.** the color folder describes the complete operation of the FileSearch storage and retrieval process from the initial document analysis and indexing to the hard



copy output. It describes a typical business/industry file problem and how FileSearch solves it.

A complete detailing of the system's advantages and characteristics is offered.

The FMA system basically is composed of a recording camera unit and a fully automated search and retrieval unit. Combining optics and electronics, FileSearch stores an unlimited amount of data with a search rate of an unprecedented 6400 pages per minute. The FileSearch is recommended for libraries, industrial firms, military organizations, government departments, and similar activities which are struggling with the twin problems of mountains of data and the heavy cost of maintaining bulky files and personnel to dig out requested information.

### KODACHROME FILM PROCESSOR

The Photo Products Division of **Houston-Fearless** announces their Model 515-K2 film processor designed to process the new Kodachrome K2 film. The new machine, automatically processes both 8/16mm film, either simultaneously or separately. Or it can develop two reels of 8/16 at once.

Independent drive systems for the two film sizes are on opposite sides, but utilize the same tanks for solution, rinse and wash, plus a common dry box. A single all-purpose drive shaft on bottom eliminates film tension. Speeds are 12½ fpm for 8/16mm and 5 fpm for 35mm.

The machine is completely equipped with automatic on-off switch, loading elevators, pumps, replenisher tanks, compressor, air filters, dry box and control panel. Automatically controlled heating and refrigerating equipment are also standard. The 5' high x 16'